

MXC10 for CTX6600 platform

100G Muxponder

Key Features

- Muxponder Mode for Aggregation Services
10x8/10G into 100G OTU4 DWDM Line side
- Client side supports 10G LAN/WAN, 8G/10G FC, STM64/OC192, OTU2, OTU2e Standards based ITU-T G709 RSFEC, I.4, I.7
- Supports full C-band DWDM and Coherent CFP2 for line side
- Performance Monitoring
- Automatic Laser Shutdown(ALS) for all ports

Applications

MCX10 pluggable board in CTX6600 chassis is Danriver's 100G multi-rate/multi-protocol Muxponder for high capacity transport solutions, it allows migration exist various and future services without replacement.



Figure 2: MCX10 Muxponder

Application Scenarios:

| Data Center interconnection (DCI)

| Metro Network Application

| High Capacity and Long Haul Solution

| Enterprise Line

| DWDM Upgrade

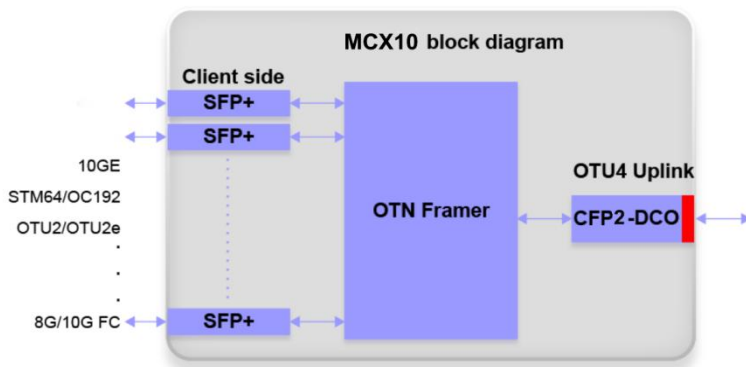


Figure 1: MCX10 Block Diagram

Technical Specifications

Operation Mode	MCX10
Muxponder Mode	10x 8/10G client and 1x 100G CFP2 uplink
10G Ports	
Number of port	10
Interface	10xSFP+
Transceiver	Wavelength, Protocol, Distance depend on SFP+
Protocol	Ethernet 10GbE-LAN/WAN SDH/SONET STM64/OC192 Storage 8G/10G FC(Fibre Channel FC-800/Fibre Channel FC-1200) G.709 OTN OTU2,OTU2e
100G Ports	
Number of port	1
Interface	CFP2
Transceiver	DWDM Coherent CFP2,Tunable wavelength
Protocol	100GbE 100G OTN OTU4
FEC Feature(Optional)	
FEC function	10G FEC: RSFEC (G.709 FEC) , I.4, I.7
	100G FEC: RSFEC (G.709 FEC)
	100G Coherent CFP: SD-FEC
FEC gain(dB)	10.8 Max with Coherent CFP
Client Side Signal and Mapping Mode	
10GE	10GE(via BMP) - ODU2E x ODU2E - ODU4 - Line OTU4
OC192	OC192(via AMP) - ODU2 x ODU2 - ODU4 - Line OTU4
STM64	STM64(via AMP) - ODU2 x ODU2 - ODU4 - Line OTU4
OTU2	OTU2 - ODU2 x ODU2 - ODU4 - Line OTU4
OTU2E	OTU2E - ODU2E x ODU2E - ODU4 - Line OTU4
ETH10G_GFP	10GE (via GFP) - ODU2 x ODU2 - ODU4 - Line OTU4
8G FC	8G FC(via BMP) - ODU2 x ODU2 - ODU4 - Line OTU4
10G FC	10G FC(via BMP) - ODU2E x ODU2E - ODU4 - Line OTU4

Performance Monitoring	
Optical module	TX/RX power level, wavelength, temperature
Ports	OTU Section OTU Far Section ODU Path ODU Far Path OTN FEC Correct error OTN FEC uncorrected error
Optical module	TX/RX power level, wavelength, temperature
Diagnostic test	
Loopback	Facility loopback: local loopback, remote loopback
PRBS test	Supports
Protection	
OChP and Line protection	Work with CTX6600 OPS additional
Environmental	
Operating Temperature	0 to 45°C
Operating Humidity	5 to 95% (non-condensing)
Storage Temperature	-20 to + 70°C
Mechanics	
Card type	Pluggable
Slot assignment	2 adjacent slots vertically
Platform	CTX6600V
Dimensions (H x W x D mm)	40x192x223
Power Supply	
Card type	Pluggable power supply
Power feed	DC -48V input from backplane
Power Consumption	<90W